

Compact High-Stability Optical Switches**ABSTRACT**

In one embodiment, an optical switch includes: a first dual-fiber collimator comprising a first pair of optical fibers; a second fiber collimator comprising an output optical fiber; a switching prism movable between a first position and a second position, and a first mirror facing the first collimator. In the first position, the switching prism directs light from an input fiber of the first collimator into the output fiber of the second collimator. In the second position, the switching prism is positioned out of an optical path of light emitted from the input fiber of the first collimator. The first mirror is aligned to reflect light from the input fiber of the first collimator into an output fiber of the first collimator when the switching prism is in the second position. The second collimator may be a dual-fiber collimator, and a second mirror may be placed facing the second collimator.